

Chip type 105°C Capacitors(height:4.5mm)

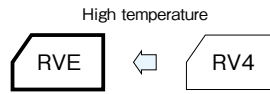
GREEN CAP

SMD

105°C  
1000hours

Anti-  
cleaning  
solvent

- Compatible with surface mounting for 4.5mm height capacitors.
- Supplied with carrier taping.
- Guarantees 1000 hours 105°C.



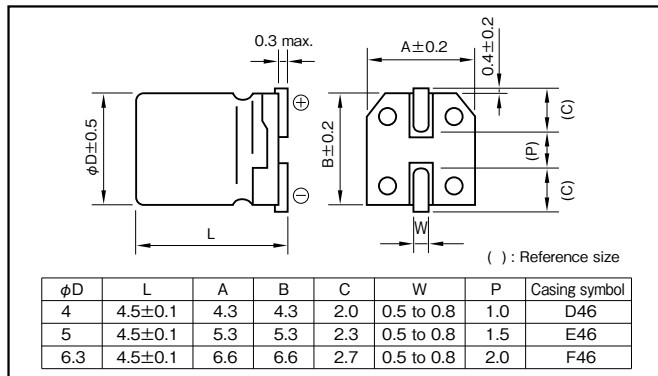
Marking color : Black print

Specifications

Item	Performance						
Category temperature range (°C)	-40 to +105						
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)						
Leakage current (μA)	Less than 0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF), V : Rated voltage (V) (20°C)						
Tangent of loss angle (tanδ)	Rated voltage (V)	6.3	10	16	25	35	50
	tanδ (max.)	0.38	0.32	0.20	0.16	0.14	0.14
Characteristics at high and low temperature	Rated voltage (V)	6.3	10	16	25	35	50
	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	2
		Z-40°C/Z+20°C	10	8	6	4	3
Endurance (105°C)	Test time	1000 hours					
	Leakage current	The initial specified value or less					
	Percentage of capacitance change	Within ±20% of initial value (16VV or less:±25%)					
	Tangent of loss angle	300% or less of the initial specified value					
Shelf life (105°C)	Test time : 500hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4						
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)						

Outline Drawing

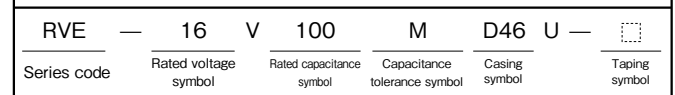
Unit : mm



Coefficient of Frequency for Rated Ripple Current

Rated voltage (V)	Frequency (Hz)			
	50 · 60	120	1k	10k · 100k
6.3 to 16	0.80	1	1.15	1.25
25 to 35	0.80	1	1.25	1.40
50	0.22 to 3.3μF	0.50	1	1.35
	4.7μF to 10μF	0.70	1	1.35

Part numbering system (example : 16V100μF)



- Soldering conditions are described on page 15.
- Land pattern size are described on page 13.
- The taping specifications are described on page 16.

Standard Ratings

Rated capacitance (μF)	6.3			10			16			25			35			50		
	Case φD(mm)	Casing symbol	Rated ripple current (mA rms)	Case φD(mm)	Casing symbol	Rated ripple current (mA rms)	Case φD(mm)	Casing symbol	Rated ripple current (mA rms)	Case φD(mm)	Casing symbol	Rated ripple current (mA rms)	Case φD(mm)	Casing symbol	Rated ripple current (mA rms)	Case φD(mm)	Casing symbol	Rated ripple current (mA rms)
0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	D46	2.2	
0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	D46	2.8	
0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	D46	3.3	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	D46	5.4	
2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	D46	9.6	
3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	D46	12	
4.7	-	-	-	-	-	-	-	-	4	D46	11	4	D46	13	5	E46	16	
10	-	-	-	-	-	-	4	D46	16	5	E46	20	5	E46	22	6.3	F46	26
22	4	D46	19	5	E46	24	5	E46	26	6.3	F46	33	6.3	F46	36	-	-	-
33	5	E46	26	5	E46	30	6.3	F46	35	6.3	F46	42	-	-	-	-	-	-
47	5	E46	32	6.3	F46	40	6.3	F46	44	-	-	-	-	-	-	-	-	-
100	6.3	F46	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(Note) Rated ripple current : 105°C, 120Hz